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Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE  
Approved for use through 09/30/2000. OMB 0651-0032

# UTILITY PATENT APPLICATION TRANSMITTAL

(Only for new nonprovisional applications under 37 CFR § 1.53(b))

Attorney Docket No.	0942.2800008/RWE/RCM
First Inventor or Application Identifier	CHATTERJEE, Deb K.
Title	Cloned DNA Polymerases From Thermotoga maritima and Mutants Thereof
Express Mail Label No.	

## APPLICATION ELEMENTS

See MPEP chapter 600 concerning utility patent application contents.

ADDRESS TO: Assistant Commissioner for Patents  
Box Patent Application  
Washington, DC 20231

1. ☒ \* Fee Transmittal Form (e.g., PTO/SB/17)  
(Submit an original, and a duplicate for fee processing)  
[Total Pages 86 ]

2. ☒ Specification  
(preferred arrangement set forth below)  
- Descriptive title of the invention  
- Cross References to Related Applications  
- Statement Regarding Fed sponsored R & D  
- Reference to Microfiche Appendix  
- Background of the Invention  
- Brief Summary of the Invention  
- Brief Description of the Drawings (if filed)  
- Detailed Description  
- Claim(s)  
- Abstract of the Disclosure

3. ☒ Drawing(s) (35 U.S.C. 113) [Total Sheets 30 ]

4. ☒ Oath or Declaration [Total Pages 2 ]

- a. ☐ Newly executed (original or copy)

- b. ☒ Copy from a prior application (37 CFR 1.63(d)) (for continuation/divisional with Box 17 completed)  
[Note Box 5 below]

- i. ☐ **DELETION OF INVENTOR(S)**  
Signed statement attached deleting inventor(s) named in the prior application, see 37 CFR §§ 1.63(d)(2) and 1.33(b).

5. ☒ Incorporation By Reference (useable if Box 4b is checked)  
The entire disclosure of the prior application, from which a copy of the oath or declaration is supplied under Box 4b, is considered as being part of the disclosure of the accompanying application and is hereby incorporated by reference therein.

6. ☐ Microfiche Computer Program (Appendix)  
7. Nucleotide and/or Amino Acid Sequence Submission applicable, all necessary)  
a. ☐ Computer Readable Copy  
b. ☒ Paper Copy  
c. ☐ Statement verifying identity of above copies

## ACCOMPANYING APPLICATION PARTS

8. ☐ Assignment Papers (cover sheet & document(s))  
9. ☐ 37 CFR 3.73(b) Statement (when there is an assignee) ☐ Power of Attorney  
10. ☐ English Translation Document (if applicable)  
11. ☐ Information Disclosure Statement (IDS)/PTO-1449 ☐ Copies of IDS Citations  
12. ☒ Preliminary Amendment  
13. ☒ Return Receipt Postcard (MPEP 503) (Should be specifically itemized)  
14. ☐ \*Small Entity Statement(s) (PTO/SB/09-12) ☐ Statement filed in prior application, Status still proper and desired  
15. ☐ Certified Copy of Priority Document(s) (if foreign priority is claimed)  
16. ☒ Other: -37 C.F.R. § 1.136(a)(3) Authorization  
☐ Other:

\*NOTE FOR ITEMS 1 & 14: IN ORDER TO BE ENTITLED TO PAY SMALL ENTITY FEES, A SMALL ENTITY STATEMENT IS REQUIRED (37 C.F.R. § 1.27), EXCEPT IF ONE FILED IN A PRIOR APPLICATION IS RELIED UPON (37 C.F.R. § 1.28).

17. If a CONTINUING APPLICATION, check appropriate box, and supply the requisite information below and in a preliminary amendment:  
☐ Continuation ☒ Divisional ☐ Continuation-in-Part (CIP) of prior application No: 08 /706,702

Prior application information: Examiner K. Hendricks

Group/Art Unit: 1652

## 18. CORRESPONDENCE ADDRESS

☐ Customer Number or Bar Code Label

(Insert Customer No. or Attach bar code label here)

or ☒ Correspondence address below

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	USA	TELEPHONE	(202) 371-2600
		ZIP CODE	20005-3934
		FAX	(202) 371-2540

NAME (Print/Type)	Robert C. Millonig	Registration No. (Attorney/Agent)	34,395
SIGNATURE		Date	January 13, 1999

Burden Hour Statement: this form is estimated to take 0.2 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

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FEE TRANSMITTAL		Complete if Known	
<i>Patent fees are subject to annual revision on October 1. These are the fees effective October 1, 1997. Small Entity payments must be supported by a small entity statement, otherwise large entity fees must be paid. See Forms PTO/SB/09-12. See 37 C.F.R. §§ 1.27 and 1.28.</i>		Application Number	Divisional of 08/706,702
		Filing Date	(Herewith)
		First Named Inventor	Chatterjee, Deb K.
		Examiner Name	K. Hendricks
		Group / Art Unit	1652
TOTAL AMOUNT OF PAYMENT	(\$760.00)	Attorney Docket Number	0942.2800008/RWE/RCM

METHOD OF PAYMENT (check one)		FEE CALCULATION (continued)																																																																																																																																																																																									
<p>1. <input type="checkbox"/> The Commissioner is hereby authorized to charge indicated fees and credit any overpayment to:</p> <table border="1"><tr><td>Deposit Account Number</td><td>19-0036</td></tr><tr><td>Deposit Account Name</td><td>Sterne, Kessler, Goldstein &amp; Fox P.L.L.C.</td></tr></table> <p><input checked="" type="checkbox"/> Charge Any Additional Fee Required Under 37 CFR 1.16 and 1.17    <input type="checkbox"/> Charge the Issue Fee Set in 37 CFR 1.18 at the Mailing of the Notice of Allowance</p>		Deposit Account Number	19-0036	Deposit Account Name	Sterne, Kessler, Goldstein & Fox P.L.L.C.	<p>3. ADDITIONAL FEES</p> <table border="1"><thead><tr><th>Large Fee Code</th><th>Entity Fee (\$)</th><th>Small Fee Code</th><th>Entity Fee (\$)</th><th>Fee Description</th><th>Fee Paid</th></tr></thead><tbody><tr><td>105</td><td>130</td><td>205</td><td>65</td><td>Surcharge - late filing fee or oath</td><td></td></tr><tr><td>127</td><td>50</td><td>227</td><td>25</td><td>Surcharge - late provisional filing fee or cover sheet</td><td></td></tr><tr><td>139</td><td>130</td><td>139</td><td>130</td><td>Non-English specification</td><td></td></tr><tr><td>147</td><td>2,520</td><td>147</td><td>2,520</td><td>For filing a request for reexamination</td><td></td></tr><tr><td>112</td><td>920*</td><td>112</td><td>920*</td><td>Requesting publication of SIR prior to Examiner action</td><td></td></tr><tr><td>113</td><td>1,840*</td><td>113</td><td>1,840*</td><td>Requesting publication of SIR after Examiner action</td><td></td></tr><tr><td>115</td><td>110</td><td>215</td><td>55</td><td>Extension for reply within first month</td><td></td></tr><tr><td>116</td><td>380</td><td>216</td><td>190</td><td>Extension for reply within second month</td><td></td></tr><tr><td>117</td><td>870</td><td>217</td><td>435</td><td>Extension for reply within third month</td><td></td></tr><tr><td>118</td><td>1,360</td><td>218</td><td>680</td><td>Extension for reply within fourth month</td><td></td></tr><tr><td>128</td><td>1,850</td><td>228</td><td>925</td><td>Extension for reply within fifth month</td><td></td></tr><tr><td>119</td><td>300</td><td>219</td><td>150</td><td>Notice of Appeal</td><td></td></tr><tr><td>120</td><td>300</td><td>220</td><td>150</td><td>Filing a brief in support of an appeal</td><td></td></tr><tr><td>121</td><td>280</td><td>221</td><td>130</td><td>Request for oral hearing</td><td></td></tr><tr><td>138</td><td>1,510</td><td>138</td><td>1,510</td><td>Petition to institute a public use proceeding</td><td></td></tr><tr><td>140</td><td>110</td><td>240</td><td>55</td><td>Petition to revive - unavoidable</td><td></td></tr><tr><td>141</td><td>1,210</td><td>241</td><td>605</td><td>Petition to revive - unintentional</td><td></td></tr><tr><td>142</td><td>1,210</td><td>242</td><td>605</td><td>Utility issue fee (or reissue)</td><td></td></tr><tr><td>143</td><td>430</td><td>243</td><td>215</td><td>Design issue fee</td><td></td></tr><tr><td>144</td><td>580</td><td>244</td><td>290</td><td>Plant issue fee</td><td></td></tr><tr><td>122</td><td>130</td><td>122</td><td>130</td><td>Petitions to the Commissioner</td><td></td></tr><tr><td>123</td><td>50</td><td>123</td><td>50</td><td>Petitions related to provisional applications</td><td></td></tr><tr><td>126</td><td>240</td><td>126</td><td>240</td><td>Submission of Information Disclosure Stmt</td><td></td></tr><tr><td>581</td><td>40</td><td>581</td><td>40</td><td>Recording each patent assignment per property (times number of properties)</td><td></td></tr><tr><td>146</td><td>760</td><td>246</td><td>380</td><td>Filing a submission after final rejection (37 CFR 1.129(a))</td><td></td></tr><tr><td>149</td><td>760</td><td>249</td><td>380</td><td>For each additional invention to be examined (37 CFR 1.129(b))</td><td></td></tr><tr><td colspan="5">Other fee (specify) :</td><td></td></tr><tr><td colspan="5">Other fee (specify) :</td><td></td></tr><tr><td colspan="5">*Reduced by Basic Filing Fee Paid</td><td></td></tr></tbody></table>		Large Fee Code	Entity Fee (\$)	Small Fee Code	Entity Fee (\$)	Fee Description	Fee Paid	105	130	205	65	Surcharge - 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<p>2. <input checked="" type="checkbox"/> Payment Enclosed:    <input checked="" type="checkbox"/> Check No. 23477</p> <p><input type="checkbox"/> Money Order    <input checked="" type="checkbox"/> Other*</p> <p>*Charge any deficiencies or credit any overpayments in the fees or fee calculations of Parts 1, 2 and 3 below to Deposit Account No. 19-0036.</p>																																																																																																																																																																																											
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SUBMITTED BY		Complete (if applicable)	
Typed or Printed Name	Robert G. Millonig	Reg. Number	34,395
Signature		Deposit Acct. User ID	19-0036
Date	January 13, 1999		

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JCS98 U.S. PTO  
01/13/99

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DONALD R. BANOWIT\*\*  
DAVID P. MAIVALD\*\*

January 13, 1999

\*BAR OTHER THAN D.C.  
\*\*REGISTERED PATENT AGENTS

WRITER'S DIRECT NUMBER:  
(202) 371-2653

Assistant Commissioner for Patents  
Washington, D.C. 20231

*Box Patent Application*

Re: U.S. Non-Provisional Utility Patent Application under 37 C.F.R. § 1.53(b)  
Divisional of 08/706,702; Filed: September 6, 1996  
For: **Cloned DNA Polymerases From *Thermotoga maritima* and  
Mutants Thereof**  
Inventors: CHATTERJEE, Deb K.  
Our Ref: 0942.2800008/RWE/RCM

Sir:

The following documents are forwarded herewith for appropriate action by the U.S.  
Patent and Trademark Office:

1. PTO Utility Patent Application Transmittal Form (PTO/SB/05);
2. U.S. Utility Patent Application entitled:  
**Cloned DNA Polymerases From *Thermotoga maritima* and Mutants Thereof**  
and naming as inventor:  
Deb K. Chatterjee  
the application consisting of:
  - a. A specification containing:
    - (i) 79 pages of description prior to the claims, including a sequence listing on pages 62 to 79;

Assistant Commissioner for Patents

January 13, 1999

Page 2

- (ii) 6 pages of claims (35 claims);
- (iii) a one (1) page abstract;
- b. 30 sheets of drawings: (Figures 1-4, 5A, 5B, 6A, 6B, 7-13, 14A, 14B, 15, 16A, 16B, 16C, 16D, 16E, 16F, 17A, 17B, 17C, 17D, 17E, 17F);
- c. A copy of the executed Declaration, as filed in U.S. Appl. No. 08/706,702;
- d. Our check No. 23477 for \$760.00 to cover filing fee for patent application;
- 3. Preliminary Amendment;
- 4. PTO Fee Transmittal Form PTO/SB/17;
- 5. Authorization to Treat a Reply As Incorporating An Extension of Time Under 37 C.F.R. § 1.136(a)(3); and
- 6. Two (2) return postcards.

It is respectfully requested that, of the two attached postcards, one be stamped with the filing date of these documents and returned to our courier, and the other, prepaid postcard, be stamped with the filing date and unofficial application number and returned as soon as possible.

The U.S. Patent and Trademark Office is hereby authorized to charge any fee deficiency, or credit any overpayment, to our Deposit Account No. 19-0036. A duplicate copy of this letter is enclosed.

Respectfully submitted,

STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.



Robert C. Millonig  
Attorney for Applicants  
Registration No. 34,395

RCM/cmg

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:

CHATTERJEE, Deb K.

Appl. No. (Divisional of 08/706,702)

Filed: (Herewith)

For: **Cloned DNA Polymerases From  
*Thermotoga* and Mutants Thereof**

Art Unit: 1652

Examiner: K. Hendricks

Atty. Docket: 0942.2800008/RWE/RCM



**Authorization To Treat A Reply As Incorporating An Extension Of Time  
Under 37 C.F.R. § 1.136(a)(3)**

Assistant Commissioner for Patents  
Washington, D.C. 20231

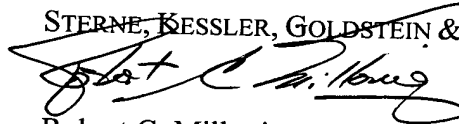
Sir:

The U.S. Patent and Trademark Office is hereby authorized to treat any concurrent or future reply that requires a petition for an extension of time under this paragraph for its timely submission, as incorporating a petition for extension of time for the appropriate length of time.

The U.S. Patent and Trademark Office is hereby authorized to charge all required extension of time fees to our Deposit Account No. 19-0036, if such fees are not otherwise provided for in such reply. A duplicate copy of this authorization is enclosed.

Respectfully submitted,

STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.

A handwritten signature in black ink, appearing to read "Robert C. Millonig", is written over the printed name and firm name.

Robert C. Millonig  
Attorney for Applicants  
Registration No. 34,395

Date: January 13, 1999  
1100 New York Avenue, N.W.  
Suite 600  
Washington, D.C. 20005-3934  
(202) 371-2600

P:\USERS\BOBM\0942\2800006\DIV Authorization